



glideinWMS: Workload Management System

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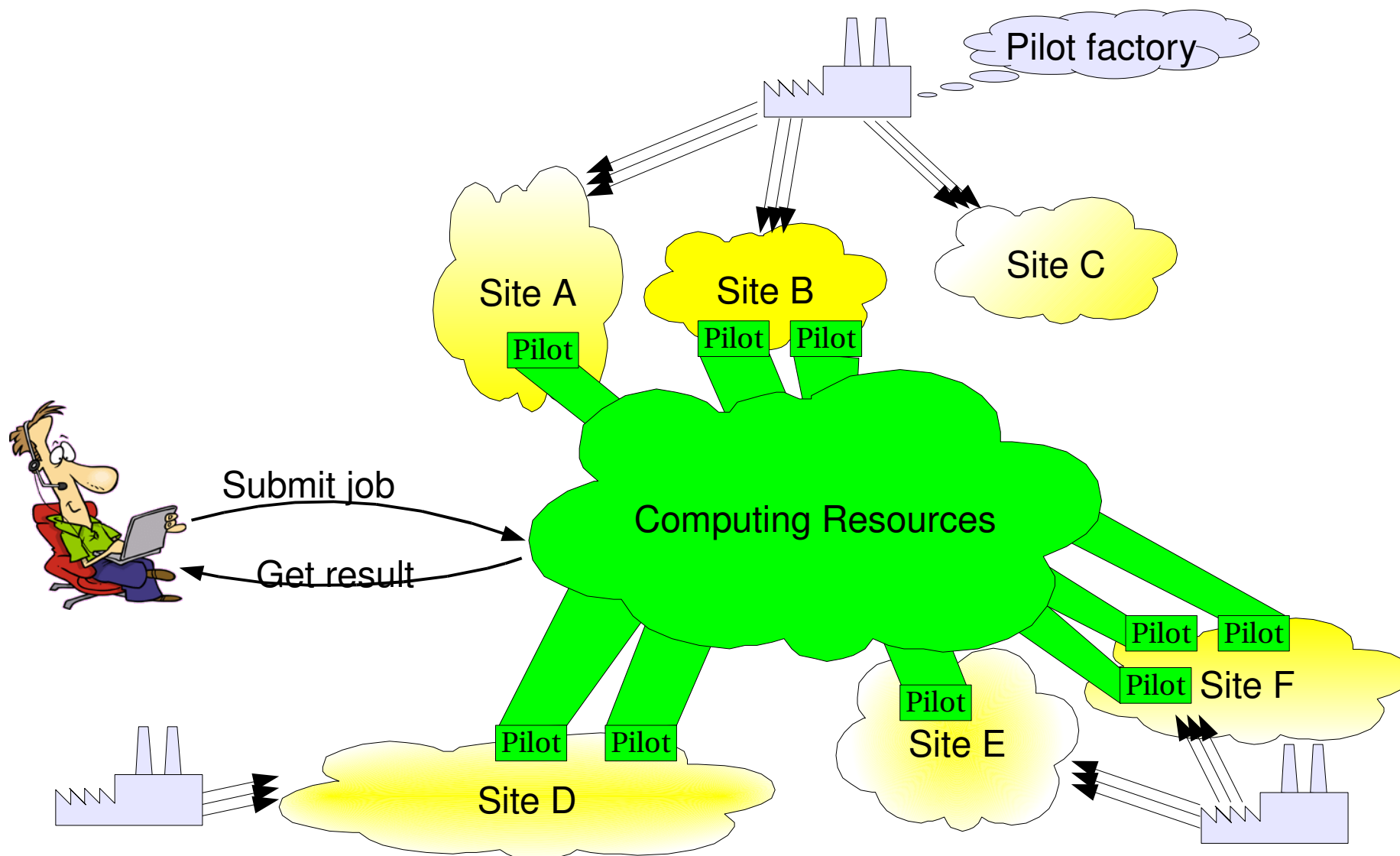
Grid Coordination Meeting on Workload Management Systems

November 6, 2007



- ⇒ Goal: Provide a scalable Workload Management System for submission across the Open Science Grid
- ⇒ Stakeholders
 - ⇒ US CMS, CMS, CD, OSG
- ⇒ Effort
 - ⇒ ~ 1 FTE (0.5 Sfiligoi, 0.25 Holzman, negotiated effort from Condor)

glideinWMS Overview





glideinWMS Overview

- ⇒ Send “pilot” jobs to
 - ⇒ Validate worker nodes
 - ⇒ Pull remote workload
 - ⇒ Increase job throughput
 - ⇒ Reduce gatekeeper load
- ⇒ Use Condor to create a Virtual Condor Pool



glideinWMS Milestones

- ⇒ “Complete” development: 15 Nov 2007 (est .25 FTE)
- ⇒ Complete integration/evaluation: 1 Jan 2008 (est .5 FTE)
- ⇒ Offer to stakeholders as contribution for common WMS component: 1 Feb 2008 (est .25 FTE)
- ⇒ Deploy for CMS: 1 Feb 2008 (est .25 FTE)
- ⇒ Move to production operations: 1 Mar 2008 (est .25 FTE)
- ⇒ Post March production support (hardware, software) under discussion with CMS



glideinWMS Status

- ⇒ Full integration with ReSS: just starting
- ⇒ Full integration with CMS applications (ProdAgent, CRAB): in progress
- ⇒ Scaling tests
 - ⇒ CMS CSA07: 3200 concurrent jobs at Tier 1 with ProdAgent + glideinWMS
 - ⇒ 100K jobs / day with CRAB: next 2 weeks
- ⇒ CSA07 Level 3 management very pleased with performance